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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | Application Number | 10/530,972 |
| | | Filing Date | 12-05-2005 |
| | | First Named Inventor | Shawn DEFREES |
| | | Group Art Unit | 1654 |
| | | Examiner Name | HEARD, Thomas S. |
| Sheet 1 of 3 | Attorney Docket Number | 101961-01-5083-US01 | |

| U.S. PATENT DOCUMENTS | | | | |
|-----------------------|-----------------------------|----------------------|---|--|
| Exr Initials | U.S. Patent Document Number | Kind Code (if known) | Name of Inventor or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY |
| | 2004/0063911 | A1 | DeFrees et al. | 04-01-2004 |
| | 2004/0137557 | A1 | DeFrees et al. | July 15, 2004 |
| | 2005/0118672 | A1 | DeFrees et al. | 06-02-2005 |
| | 2005/0143292 | A1 | DeFrees et al. | June 30, 2005 |
| | 2006/0024286 | A1 | Glidden | 02-02-2006 |
| | 2006/0111279 | A1 | DeFrees et al. | May 25, 2006 |
| | 2007/0027068 | A1 | DeFrees et al. | 02-01-2007 |
| | 2007/0105755 | A1 | DeFrees et al. | 05-10-2007 |
| | 2008/0015142 | A1 | DeFrees et al. | 01-17-2008 |
| | 4,879,236 | | Smith et al. | 11-07-1989 |
| | 5,147,788 | | Page et al. | 09-15-1992 |
| | 5,194,376 | A | Kang | 03-16-1993 |
| | 5,635,603 | | Hansen et al. | 06-03-1997 |
| | 5,646,113 | | Attie et al. | 07-08-1997 |
| | 6,531,121 | B2 | Brines et al. | 03-11-2003 |
| | 7,125,843 | | DeFrees et al. | Oct. 24, 2006 |
| | 7,138,371 | B2 | DeFrees et al. | 11-21-2006 |
| | 7,214,660 | | DeFrees et al. | May 8, 2007 |
| | 7,338,933 | B2 | DeFrees et al. | 03-04-2008 |
| | 7,405,198 | B2 | DeFrees et al. | 07-29-2008 |

| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|--------------|--------------------------------|----------------------|--|--|
| Exr Initials | Country Code | Foreign Patent Document Number | Kind Code (if known) | Name of Inventor or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY |
| | | EP 1428878 | A1 | Bavand et al. | 06-16-2004 |
| | | WO 90/08164 | A1 | Garlick, et al. | 07-26-1990 |
| | | WO 90/08823 | A1 | Parcells, et al. | 08-09-1990 |
| | | WO 96/21469 | A1 | Harris, et al. | 07-18-1996 |
| | | WO 99/45964 | A1 | Harris, et al. | 09-16-1999 |
| | | WO 00/26354 | A1 | Olsen, et al. | 05-11-2000 |
| | | WO 02/092619 | A2 | Loh, et al. | 11-21-2002 |
| | | WO 02/53580 | A2 | The Kenneth S. Warren Institute, Inc. | 07-11-2002 |
| | | WO 04/033651 | A2 | De Frees, et al. | 04-22-2004 |
| | | WO 04/10327 | A2 | Fraunhofer-Gesellschaft Zur Förderung Der Angewandten Forschung E.V. | 01-29-2004 |
| | | WO 04/103275 | A2 | DeFrees | 12-02-2004 |
| | | WO 04/96148 | A2 | The Kenneth S. Warren Institute, Inc. | 11-11-2004 |
| | | WO 05/121331 | A2 | Neose Technologies, Inc. | 12-22-2005 |
| | | WO 05/25606 | A1 | Warren Pharmaceuticals, Inc.; The | 03-24-2005 |

| | | | |
|---------------------------|--|------------------------|--|
| Examiner Signature | | Date Considered | |
|---------------------------|--|------------------------|--|

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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|---|---|--------------------------|---------------------|----------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | Complete if Known | | 10530972 - GAU: 1654 |
| Sheet | 2 | of | 3 | |
| | | Application Number | 10/530,972 | |
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| | | First Named Inventor | Shawn DEFREES | |
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| | | Examiner Name | HEARD, Thomas S. | |
| | | Attorney Docket Number | 101961-01-5083-US01 | |

| | | | | |
|--|--------------|----|---------------------------------------|------------|
| | WO 05/67601 | A2 | Kenneth S. Warren Institute, Inc. | |
| | WO 05/70138 | A2 | Neose Technologies, Inc. | 07-28-2005 |
| | WO 06/031811 | A2 | Neose Technologies, Inc. | 08-04-2005 |
| | WO 06/14349 | A2 | De Frees, et al. | 03-23-2006 |
| | WO 06/14466 | A2 | The Kenneth S. Warren Institute, Inc. | 02-09-2006 |
| | WO 06/74279 | A1 | The Kenneth S. Warren Institute, Inc. | 02-09-2006 |
| | WO 06/78645 | A2 | Neose Technologies, Inc. | 07-13-2006 |
| | WO 08/11633 | A2 | Neose Technologies, Inc. | 07-27-2006 |
| | | | Neose Technologies, Inc. | 01-24-2008 |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | | | |
|---|---|--|--|--|
| Exr Initials | Include Name of Author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | | | |
| | Alam et al., 1998, Journal of Biotechnology. 65: 183-190. | | | |
| | Bedard et al., 1994, Cytotechnology 15:129-138. | | | |
| | Bennett et al., 1998, J. Biol. Chem. 273:30472-30481. | | | |
| | Bennett et al., 1999, FEBS Letters 460:226-230. | | | |
| | Bork (2000) Genome Research 10:398-400. | | | |
| | Bork et al. (1996) Trends in Genetics 12(10): 425-427. | | | |
| | Brenner (1999) Trends in Genetics 15(4) 132-133. | | | |
| | Doerks et al. (1998) Trends in Genetics 14(6): 248-250. | | | |
| | Fritz et al., 2004, PNAS 101(43):15307-15312. | | | |
| | Fritz et al., 2006, J. Biol. Chem. 281(13):8613-8619. | | | |
| | Gilbert et al., 1996, Cytotechnology 22:211-216. | | | |
| | Hagen et al., 1999, J. Biol. Chem. 274:27867-27874. | | | |
| | Hagen et al., 1999, J. Biol. Chem. 274:6797-6803. | | | |
| | Hagen et al., 2001, J. Biol. Chem. 276:17395-17404. | | | |
| | Harris et al., Abstracts of Papers of the American Chemical Society, 1991, V 201, APR, P 64-POLY, page 154-155. | | | |
| | Hassan et al., 2000, J. Biol. Chem. 275:38197-38205. | | | |
| | Hink et al., 1991, Biotechnology Progress 7:9-14. | | | |
| | Hollister et al., 2001, Glycobiology 11:1-9 | | | |
| | Ikononou et al., 1991, In Vitro Cell. Dev. Biol.-Animal 37:549-559. | | | |
| | Inlow, et al., 1989, J. Tissue Culture Meth. 12:13-16. | | | |
| | Lau et al. (1999) Journal of Biotechnology 75:105-115. | | | |
| | Licari P. et al., 1992, Biotechnology and Bioengineering 39(4):432-441. | | | |
| | Licari P. et al., 1992, Biotechnology and Bioengineering 39(9):932-944. | | | |
| | NCBI - Accession No. NCA26095 (2 pgs.) 2007 | | | |
| | NCBI - Accession No. NP_058697 (3 pgs.) 2007 | | | |
| | NCBI - Accession No. NP_999299 (2 pgs.) 2007 | | | |
| | NCBI Database hits for erythropoietin protein sequences (3 pgs.) | | | |
| | Ngo et al. (1994) "The Protein Folding Problem and Tertiary Structure Prediction, Chapter 14: Computational Complexity Protein Structure Prediction, and the Levinthal Paradox" pp. 433-440 and 492-495. | | | |
| | Oetke, et al., 2002, J. Biol. Chem 277(8):6688-6695 | | | |
| | PNGase-F Amidase Sequence from F. Meningosepticum (Registry numbers 128688-70-0) (2007) | | | |
| | PNGase-F Amidase Sequence from F. Meningosepticum (Registry numbers 128688-71-1) (2007) | | | |
| | Reis et al., 1991, Biotechnology and Bioengineering 38:413-422. | | | |
| | Sandberg et al., 2000, Seminars in Hematology 38(2):4-12. | | | |

| | |
|--------------------|-----------------|
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| | | |
|--|--|--|
| | Schlaeger, E., 1996, Cytotechnology 20:57-70. | |
| | Schwientek et al., 2002, J. Biol. Chem. 277:22623-22638. | |
| | Skolnick et al. (2000) Trends in Biotech. 18(1): 34-39. | |
| | Smith et al. (1997) Nature Biotechnology 15:1222-1223. | |
| | Tenno et al., 2002, J. Biol. Chem. 277(49):47088-96. | |
| | Wells (1990) Biochemistry 29(37): 8509-8517. | |

DB2/21109765.1

| | | | |
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| Examiner Signature | /Thomas Heard/ | Date Considered | 07/04/2009 |
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /TH/